

Work Order ID 142825

Monday, March 14, 2016 11:23:03 AM

142825

Page 1

Item ID: D2348

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Wearplate (Key Way)

Stop ***NS2***

Start Date: 4/15/2016 Start Qty: 10.00

10

Cust Item ID:

Required Date: 4/22/2016 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: MLS Date: MAR 16 2016

Tooling:

Date:

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D2348	Rev C

100

0.00

100

FLOW WATER JET

Waterjet

Memo

0.00

FLOW CNC Waterjet

1-Cut as per Dwg D2348

Dwg Rev: CProg Rev: C

2-Deburr if necessary

(14)

DE 16/04/20

110

0.00

110

QC2- Inspect parts off machine FAI/FAIB

QC

Memo

0.00

Quality Control

(14)

DE 16/04/20

120

0.00

120

QC8- Inspect parts - second check

QC

Memo

0.00

Quality Control

(14)

DAS
38
2.80
APR 20 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Outsource process-Anodize per QSI017 4.1.10.1	0.00							
150									
Outsource4	Memo	30.00							
Outsource process - Anodize	Issue P/O: <u>32124</u> Black Anodize per Dwg D2348 Ensure Certificate of Conformity is attached								
160	Receive & Inspect for Damage & Mat'l Certs	0.00							
160									
Packaging	Memo	0.00							
Packaging	Ensure certificate of conformity is attached								
170	QC5- Inspect part completeness to step on W/O	0.00							
170									
QC	Memo	0.00							
Quality Control	INSPECT CERTS								

14

APR 22 2016

13
9-89

14x sp/6-05-02

(14)

DAS
38
9-89

MAY 03 2016

DQA: _____ Date: _____



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Page 3

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Item Name: Wearplate (Key Way)

Start Date: 4/15/2016 **Start Qty:** 10.00

10

Cust Item ID:

Required Date: 4/22/2016 **Req'd Qty:** 10.00

10

Customer:

Reference:

Approvals: **Process Plan:** **Date:** **Tooling:** **Date:**

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

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180

0.00

180

Small Fab

0.00

Small Fab

Memo

Small Fab

Install Insert as per Dwg D2348

190

QC5- Inspect part completeness to step on W/O

0.00

190

QC

Memo

0.00

Quality Control

200

Identify as per dwg & Stock Location: 5000

0.00

200

Packaging

Memo

0.00

Packaging

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Stop ***NR2***Sequence ID/
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DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

210

QC21- Final Inspection - Work Order Release

0.00

210

QC

Memo

0.02

Quality Control

MCS JUN 10 2016

DQA: _____ Date: _____



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Picklist Print

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D2348

Parent Item Name: Wearplate (Key Way)

Start Date: 4/15/2016

Required Date: 4/22/2016

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev A Removed from 9 Digit 05-12-05 JLM
IPP Rev:B Now on Waterjet 06-07-03 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6S.063		Purchased		No		100	sf	280.8790	0.0198	0.208421			

M6061T6S 063

6061-T6 .063 Sheet

02/16/04/20

Location

Loc Qty

Loc Code

MAT021

280.879

M132358

56.65

M133511

129.9

M134377

94.329

D3996-FE-832-EF

Manufactured No

180

Each

62.0000

4

40

D3996-FE-832-EF

Self-Clinching Fastener

16/06/07

DAS
36
9-89

Location

Loc Qty

Loc Code

GA

62

128979

20

141379

42

20
18

B146973
14x

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

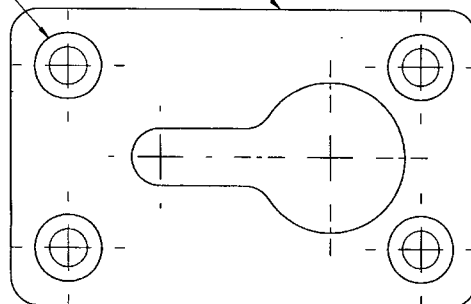
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

ITEM	QTY -041	P/N	DESCRIPTION
1	X	D2348	WEAR PLATE
2	1	D2348F	FLAT PATTERN
3	4	D3996-FE-832-EF	SELF-CLINCHING FASTENER

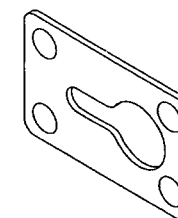
D3996-FE-832-EF
SELF-CLINCHING FASTENER
4 PL

D2348F



D2348 WEAR PLATE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO 142825ML5
16-03-16

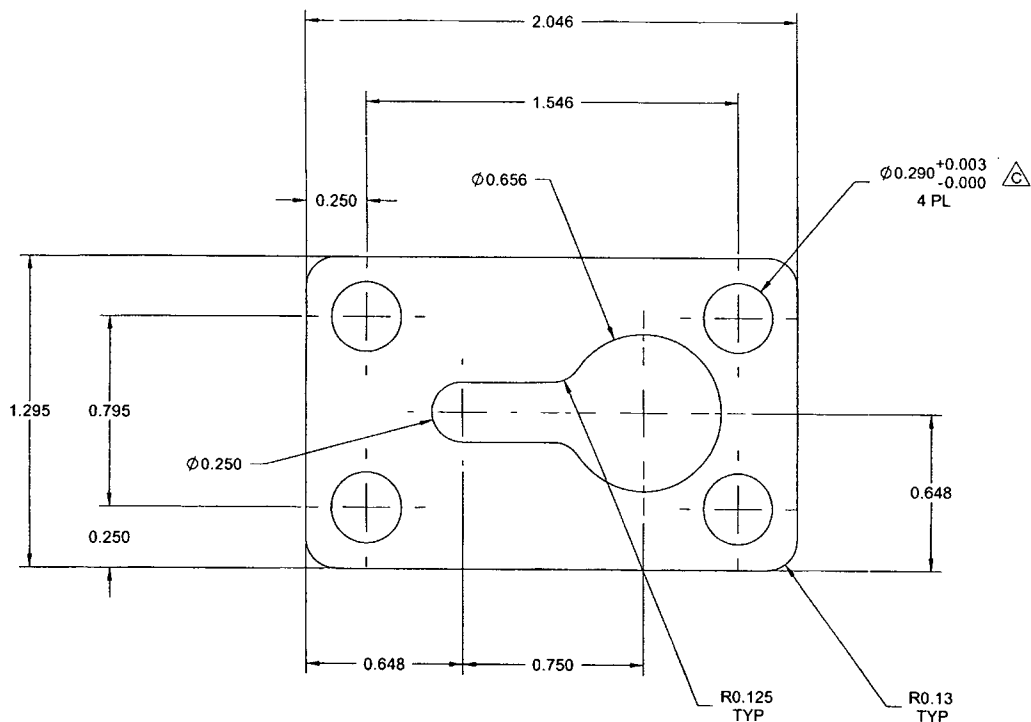


RELEASED
2009-11-09

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2348" USING REMOVABLE TAG
- 7) WEIGHT: 0.01 lbs

C	REDRAW, ADD +0.003/-0.000 TOL (ZN D4-2), NCR 08-042	CP	09.10.01
B2	CHANGED BACK TO 6061-T6	DS	02.02.21
B1	CHANGED TO AISI 304/316 MATERIAL	DS	00.03.07
B	CHANGED PEM INSERT TO 8-32	BW	95.02.20
REV.	DESCRIPTION	BY	DATE
DESIGN	BW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	97		
CHECKED	8	DRAWING NO.	REV. C
MFG. APPR.	8	D2348	SHEET 1 OF 2
APPROVED	8	TITLE	SCALE
DE APPR.	8	WEAR PLATE	NTS
DATE	09.10.01	COPYRIGHT © 1985 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	



D2348F FLAT PATTERN

RELEASED
2009-11-08

NOTES:

- 1) MATERIAL: 6061-T6 ALUMINUM SHEET 0.063 THICK PER QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.063
- 2) FINISH: BLACK ANODIZE PER MIL-A-8625F TYPE I/II/III CLASS 2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2348F" USING REMOVABLE TAG
- 7) WEIGHT: 0.01 lbs

DESIGN	SW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JP		
CHECKED	JP	DRAWING NO.	REV. C
MFG. APPR.	JP	D2348	SHEET 2 OF 2
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	WEAR PLATE	NTS
DATE	09.10.01	COPYRIGHT © 1995 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR LOANED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32124**

Purchase Order Date 4/21/2016

PO Print Date 4/25/2016

Page Number 2 of 4

Order From :

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

VC-ATG001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

613-446-4544

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

VENDOR'S TRUCK

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

Line Total:

\$5.75

4

144277 ✓

647.3916 DEFLECTOR
REV. C

4/28/2016

Yes

4/28/2016

8.00 ✓

\$18.10

\$144.80

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE I CLASS N

Line Total:

\$144.80

5

141020 ✓

646.3313 UPPER GUIDE
REV. N/C

4/25/2016

Yes

4/25/2016

18.00 ✓

\$13.10

\$235.80

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE I CLASS N

Line Total:

\$235.80

142825

D2348 WEARPLATE
REV. C

4/26/2016

Yes

4/26/2016

14.00

\$0.95

\$13.30

FINISH: BLACK ANODIZE AS PER MIL-A-8625F TYPE I OR IB / IC / II / IIB, CLASS 2

Note:

4/25/2016



To *REVISED*

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 911598

Date: 26-Apr-16

Ship To

CHANTAL LAVOIE
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
	PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT. IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544.		
2 ea	Part: D5046-043 CO-PILOT Job: 19457	PO: PO32124	Rev: B Line: 1
1 ea	Part: D5155-043 CO-PILOT Job: 19458	PO: PO32124	Rev: B Line: 2
1 ea	Part: D5155-045 CO-PILOT Job: 19459	PO: PO32124	Rev: B Line: 3
8 ea	Part: 647.3916 DEFLECTOR Job: 19460	PO: PO32124	Rev: C Line: 4
18 ea	Part: 646.3313 UPPER GUIDE Job: 19461	PO: PO32124	Rev: N/C Line: 5
14 ea	Part: D2348 WEARPLATE BLACK ANODIZE MIL-A-8625 TYPE II CLASS 2 Job: 19462	PO: PO32124	Rev: C Line: 6
12 ea	Part: D5156-3 FACE PLATE Job: 19463	PO: PO32124	Rev: B Line: 7
12	Part: D5156-1		Rev: B

SP/6-05-02

[Handwritten signature]



To *REVISED*

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
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Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
ea	FACE PLATE Job: 19464	PO: PO32124	Line: 8
1 ea	Part: ADMINISTRATION FEE ADMINISTRATION FEE Job: 19465	PO: PO32124	Rev: Line: 9
DATE: _____			
CERTIFIED SIGNATURE: <i>mu</i>			
RECEIVER SIGNATURE: <i>SP 16-05-02</i>			
Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
CERTIFICATE OF CONFORMANCE			
A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO REQUIREMENTS.			
MADE IN CANADA.			